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MARCH 08, 2001

CLARK & ELBING LLP KAREN L. ELBING, PH.D.

176 FEDERAL STREET BOSTON, MA 02110

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UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/11/2000

REEL/FRAME: 011370/0420

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

XU, WILSON C.

DOC DATE: 10/11/2000

ASSIGNEE:

GENERAL HOSPITAL CORPORATION, THE 55 FRUIT STREET

BOSTON, MASSACHUSETTS 02114

SERIAL NUMBER: 09189653 PATENT NUMBER: 6171792

FILING DATE: 11/10/1998 ISSUE DATE: 01/09/2001

SERIAL NUMBER: 60065273

FILING DATE: 11/10/1997

PATENT NUMBER:

ISSUE DATE:

JEFFREY OLSEN, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

Substitute	Form	PTO-	1595
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y Docket Number: 00786/317002

Signature

Certificate of Mailing: Date of Deposit	December 6, 2000
If hereby certify under 37 CFR 1.8(a) that this correspondence is	is being deposited with the United States Postal Service as first
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States Patent and Trademark Office, Washington, D.C. 20231.	
	Fallena Acouses
Colleen Coyne Printed Name	L'ofleen Came
Printed Name	Signatur

	RM COVER SHEET 'S ONLY
Please record the attached document.	
Names of all conveying parties:	2. Names and addresses of all receiving parties:
C. Wilson Xu (2-11-00	The General Hospital Corporation 55 Fruit Street
Additional names attached: NO	Boston, MA 02114
	Additional names/addresses attached: NO
3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other: Execution Date: 10/11/00	
4. Application numbers or patent numbers:	
A. Patent Application Numbers: 09/189,653 60/065,273	B. Patent Numbers:
5. Name and address of party to whom correspondence concerning document should be mailed: Karen L. Elbing, Ph.D. Reg. No. 35,238 Clark & Elbing LLP 176 Federal Street Boston, MA 02110	6. Total number of applications/patents involved: 1 7. Total fee (37 CFR 3.41): \$80.00 [X] Fee enclosed [] Authorized to charge deposit account 8. Deposit account number: 03-2095. If the fee above is being charged to deposit account, a duplicate copy of this cover sheet is attached. Please apply any additional charges, or any credits, to Deposit Account No. 03-2095.
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3. Statement and signature: To the best of my knowle	dge and belief, the foregoing information is true and
correct and the attached is the original document	

correct and the attached is t	ne original document,		
Karen L. Elbing, Ph.D.	1/k L.	El	6 December 2000
Name of person signing	Signature		Date

12/28/2000 GTON11 00000128 09189653

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ASSIGNMENT

For valuable consideration, we.

Full Name of Assignor	City	State (and Country if not USA)
Roger Brent	Berkeley	California
C. Wilson Xu	New York	New York
Andrew R. Mendelsohn	Sausalito	California
Walter L Lok	San Francisco	California

hereby assign to

Full Nama of Assignee	State of Incorporation	Business Address
The General Hospital Corporation	Massachusetts	55 Fruit Street Boston, MA 02114
,		

and to its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of one or more applications for United States Patent signed by us, identified as:

Title of Application	Filing Date	Serial Number
DETECTION SYSTEMS FOR REGISTERING PROTEIN INTERACTIONS AND FUNCTIONAL RELATIONSHIPS	November 10, 1998	09/189,653
DETECTION SYSTEMS FOR REGISTERING PROTEIN INTERACTIONS AND FUNCTIONAL RELATIONSHIPS	November 10, 1997	60/065,273

and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment includes said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, design registrations and like rights of exclusion, and for inventors' certificates for

further applications, assigns	5. Williout further compensation to	es and our respective heirs, lega o perform such lawful acts and to d other lawful documents as the	! 1
IN WITNESS WHEREOF, I here	eto set my hand and seal at		
this day of	. 19		•
ROGER BRENT			L.S.
STATE OF			
COUNTY OF	;ss, _:		
who will to the mode the beiso	n whose name is subscribed to t	. 19 personally appeared ROG ne foregoing Assignment, and ac or the purposes therein contained	-kmoudedayd
•	Notary Public	-	
	My Commission Expires:		·
[Notary's Seal Here]			·
In Winness Whereof, I heret	o set my hand and seal at 12	75 York Ave,	NY, NY 1002
C. WILSON XU			LS.
STATE OF New York	_ss.	- -	
known to me to be the person	whose name is subscribed to the as his/her free act and deed to Notary Public	personally appeared C. We foregoing Assignment, and act the purposes therein contained	knowledged
[Notary's Seal Here]	My Commission Expires:	GAIL M. PLATONI NOTARY PUBLIC, State of New No. 03-4907327 Qualified in Bronx County Commission Expires Sept. 28, 2	

-2-

OCT-05-00	10.35	FROM: CLARK	A.	FIRING	110

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ANDREW R. MENDELS	OHN	
STATE OF	:	
COUNTY OF	:66	•
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and acknowledged that t	o me to be the person whose name is subscribed ne/she executed the same as his/her free act and	to the foregoing Assignmen
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	Notary Public	
Notary's Seat Here	My Commission Expires:	
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UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

DECEMBER 13, 2000

CLARK & ELBING LLP KAREN L. ELBING 176 FEDERAL STREET BOSTON, MA 02110 PTAS



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RECORDATION DATE: 10/10/2000

REEL/FRAME: 011165/0616

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

BRENT, ROGER

DOC DATE: 02/05/1999

ASSIGNOR:

LOK, WALTER L.

DOC DATE: 01/26/1999

ASSIGNEE:

GENERAL HOSPITAL CORPORATION, THE 55 FRUIT STREET BOSTON, MASSACHUSETTS 02114

SERIAL NUMBER: 09189653

PATENT NUMBER:

FILING DATE: 11/10/1998

ISSUE DATE:

MARCUS KIRK, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

08-70-03 03:46pm From-CLARK & ELBING LLP

10-23-2000

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Attorney Docket Number: 00786/317002

Certificate of Mailing: Date of Deposit October 4, 2000 I hereby certify under 37 CFR 1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated above and is addressed to BOX ASSIGNMENT. Director of the United States Patent and Trademark Office, Washington, D.C. 20231.

Colleen Covne

Printed Name

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Please record the attached document.	
1. Names of all conveying parties:	2. Names and addresses of all receiving parties:
Roger Brent Walter L. Lok	The General Hospital Corporation 55 Fruit Street Boston, MA 02114
Additional names attached: NO	Additional names/addresses attached: NO
3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other:	
Execution Date: 2/5/99 and 1/26/99, respectively	00 meo 10 10 00
4. Application numbers or patent numbers:	
A. Patent Application Numbers: 09/189,653	B. Patent Numbers:
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications/patents involved: 1 7. Total fee (37 CFR 3.41): \$40.00 [X] Fee enclosed
Karen L. Elbing, Ph.D. Reg. No. 35,238 Clark & Elbing LLP 176 Federal Street Boston, MA 02110	[] Authorized to charge deposit account 8. Deposit account number: 03-2095. If the fee above is being charged to deposit account, a duplicate copy of this cover sheet is attached. Please apply any additional charges, or any
TYRHE 00000074 09187653) DO NOT USE	credits, to Deposit Account No. 03-2095.

10/20/2000 P 40.00 OF ~01 FC:581

9. Statement and signature: To the best of my knowledge and belief, the foregoing information is true and correct and the attached is the original document.

Karen L. Elbing, Ph.D. Name of person signing

ASSIGNMENT

For valuable consideration, we,

Full Name of Assignor	City	State (and Country if not USA)
Roger Brent	Berkeley	California
C. Wilson Xu	New York	New York
Andrew R. Mendelsohn	Providence	Rhode Island
Walter L. Lok	San Francisco	California

hereby assign to

Full Name of Assignee	State of Incorporation	Business Address
The General Hospital Corporation	Massachusetts	55 Fruit Street Boston, MA 02114

and to its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of one or more applications for United States Patent signed by us, identified as:

Filing Date	Serial Number
November 10, 1998	09/189,653
November 10, 1997	60/065.273
-	November 10, 1998

and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment includes said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, design registrations and like rights of exclusion, and for inventors' certificates for

further applications, assignmay reasonably request to	nents, Preliminary Statements effectuate fully this assignment	and other law	ful documents as th	e Assignee
IN WITNESS WHEREOF, I here	eto set my hand and seal at	21618	SI-FATTYET	. · · · · · · · · · · · · · · · · · · ·
this 19th day of 5	, 19	·	,	
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ROGER BRENT				L.S.
STATE OF CONTINUES	= 1			
COUNTY OF ALF-MA				
Before me to be the person	this 5th day of Febon whose name is subscribed to me as his/her free act and dee Notary Public My Commission Expires:	to the foregoined for the purp	ng Assignment, and oses therein contair	acknowledged
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known to me to be the perso	his day of on whose name is subscribed me as his/her free act and dee	to the foregoir	ng Assignment, and	acknowledged
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[Notary's Seal Here]	My Commission Expires:			

said inventions and improvements; and we agree for ourselves and our respective heirs, legal

representatives and assigns, without further compensation, to perform such lawful acts and to sign such

n Witness Whereof, I herethis day of		
		L.S.
ANDREW R. MENDELSOHN		
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MENDELSOHN known to me	is day of, 19, pe to be the person whose name is subscrib e executed the same as his/her free act a	ed to the foregoing Assignment,
	Notary Public	
[Notary's Seal Here]	My Commission Expires:	
Wattu L. L	o set my hand and seal at Serlaulum, 1999	y lanjuma
WALTER L. LOK STATE OF California		
COUNTY OF alamedo		
Before me to	nis <u>36</u> day of <u>January</u> 19 <u>19</u> , poperson whose name is subscribed to the free act and executed the same as his/per free act and executed the same as his/p	oregoing Assignment, and
[Notary's Seal Here]	My Commission Expires: [5]	USHA K. POTTER Z Comm. #1122070 Commany public California

-3-

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Attorney Docket Number: 00786/317002

Director of the U.S. Patent and Trademark Office, P.O. Box 1450, A	Signature of Person Mailing Correspondence
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Please record the attached document.	S ONLY
Names of all conveying parties:	2. Names and addresses of all receiving parties:
Andrew R. Mendelsohn	The General Hospital Corporation 55 Fruit Street Boston, MA 02114
Additional names attached: NO	Additional names/addresses attached: NO
3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other: Execution Date: 8/4/03	
4. Application numbers or patent numbers:	·
A. Patent Application Numbers: 09/189,653 (now U.S. Patent No. 6,171,792 B1) 60/065,273	B. Patent Numbers:
5. Name and address of party to whom correspondence concerning document should be mailed: Karen L. Elbing, Ph.D., REG. NO. 35,238 Clark & Elbing LLP 101 Federal Street Boston, MA 02110 Customer No.: 21559	 6. Total number of applications/patents involved: 2 7. Total fee (37 C.F.R. § 3.41); \$80.00 [X] Fee enclosed [] Authorized to charge deposit account 8. Deposit account number: 03-2095. If the fee above is being charged to deposit account, a duplicate copy of this cover sheet is attached. Please apply any additional charges, or any credits, to Deposit Account No. 03-2095.
	E THIS SPACE ledge and belief, the foregoing information is true and tayrue copy thereof. August 14, 7 Date

ASSIGNMENT

For valuable consideration, we.

Full Name of Assignor	City	State (and Country if not USA)
Roger Brent	Berkeley	California
C. Wilson Xu	New York	New York
Andrew R. Mendelsohn	Sausalito	California
Walter L. Lok	San Francisco	California

hereby assign to

Full Name of Assignee	State of Incorporation	Business Address
The General Hospital Corporation	Massachusetts .	55 Fruit Street Boston, MA 02114

and to its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of one or more applications for United States Patent signed by us, identified as:

Filing Date	Serial Number	
November 10, 1998	09/189,653	
November 10, 1997	60/065,273	
	November 10, 1998	November 10, 1998 09/189,653

and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment includes said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, design registrations and like rights of exclusion, and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation, to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the

Assignee may reasonably re			
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this day of		, 19	
			L,S.
ROGER BRENT			
STATE OF	_: :ss.		
COUNTY OF			
	ika narean whasa name is	, 19, personally appeared ROGER subscribed to the foregoing Assignment, and her free act and deed for the purposes therein	I
	Notary Public		
	My Commission Exp	ires:	
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In Witness Whereof, I her		at	,
			_ L.S.
C. WILSON XU			
STATE OF	55.		
COUNTY OF	:		
		, 19, personally appeared C. WILS cribed to the foregoing Assignment, and s/her free act and deed for the purposes there	
	Notary Public		
	My Commission E	xpires:	,
[Notary's Seal Here]	,	•	

IN WITNESS WHEREOF, I here	to set my hand and seal :	al DERKEL	EY, A:	
this	AUGUST	2003	/	
acrh	Sell		L.S.	
ANDREW R. MENDELSOH	X			
STATE OF CALIFOR	SNI A			
COUNTY OF ALA	MEDA -	2 43		
Before me t	- in haltha pare on whose	o name is subscribe	sonally appeared ANDREW R. ed to the foregoing Assignment, id deed for the purposes therein	
MARY S. BAP				
NOTARY PUELK CALLED	NIA (Notaby Public	7/2	o 16	
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· · · · · · · · · · · · · · · · · · ·	Charenn Whate hame is:	subscribed to the ii	pregoing Assignment, and deed for the purposes therein	
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